Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

EMB

"FIRST AND FINAL BILL"

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

PRE-MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

e of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

of Pre-Measurement :

Detailed Measurements

Discription of Item		No	Length	Breadth	Depth	Qty	Unit
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)							
Ananthapura							
4th cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.90	32.40	
Ch: 30 to 60m		1	30.00	1.20	0.90	32.40	
Ch: 60 to 90m		1	30.00	1.20	0.90	32.40	
Ch: 90 to 116m		1	26.00	1.20	0.90	28.08	
4th cross, RHS							
Ch: 0 to 26.3m		1	26.30				
Ch: 26.3 to 56.3m		1	30.00	1.20	0.90	32.40	
Ch: 56.3 to 80.3m		1	24.00	1.20	0.90	25.92	
Ch: 80.3 to 110.3m		1	30.00				
Ch: 110.3 to 118.6m		1	8.30				
Ch: 118.6 to 148.6m		1	30.00	1.20	0.90	32.40	
Ch: 148.6 to 178.6m		1	30.00	1.20	0.90	32.40	
Ch: 178.6 to 208.6m		1	30.00	1.20	0.90	32.40	
Ch: 208.6 to 225.2m		1	16.60	1.20	0.90	17.93	
Ooty Convent Rd, RHS							
Ch: 0 to 29.7m		1	29.70	1.20	0.90	32.08	
Road Gap							
Ch: 0 to 28.6m		1	28.60	1.20	0.90	30.89	
Road Gap							
Ch: 0 to 22.4m		1	22.40	1.20	0.90	24.19	
Road Gap							
Ch: 0 to 29.6m		1	29.60				
Ch: 29.6 to 51.2m		1	21.60	1.20	0.90	23.33	
Ch: 51.2 to 74.0m		1	22.80				
1st cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.85	30.60	
Ch: 30 to 37.4m		1	7.40	1.20	0.85	7.55	
Road Gap							
Ch: 0 to 30m		1	30.00				
Ch: 30 to 60m		1	30.00	0.70	0.85	17.85	
Ch: 60 to 80.2m		1	20.20	0.70	0.85	12.02	
Road Gap							
Ch: 0 to 30m		1	30.00	0.70	0.85	17.85	
Ch: 30 to 36.2m		1	6.20	0.70	0.85	3.69	
1st cross, RHS							
Ch: 0 to 28.9m		1	28.90	1.20	0.85	29.48	

3rd cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.85	30.60	
Ch: 30 to 34.2m		1	4.20	1.20	0.85	4.28	
3rd cross, RHS							
Ch: 0 to 30m		1	30.00	1.20	0.85	30.60	
Ch: 30 to 34.4m		1	4.40	1.20	0.85	4.49	
3rd A cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.85	30.60	
Ch: 30 to 60m		1	30.00	1.20	0.85	30.60	
Ch: 60 to 82.5m		1	22.50	1.20	0.85	22.95	
3rd A cross, RHS							
Ch: 0 to 30m		1	30.00	1.20	0.85	30.60	
Ch: 30 to 60m		1	30.00	1.20	0.85	30.60	
Ch: 60 to 82.1m		1	22.10	1.20	0.85	22.54	
Ashwath Katte, 1st cross							
Ch: 0 to 30m		1	30.00	1.10	0.85	28.05	
Ch: 30 to 47m		1	17.00	1.10	0.85	15.90	
Lead off							
Ch: 0 to 13m		1	13.00	1.10	0.85	12.16	
11th main, 3rd cross							
Cross Road 4							
Ch: 0 to 30m		1	30.00	1.10	0.85	28.05	
Ch: 30 to 31.5m		1	1.50	1.10	0.85	1.40	
2nd cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.90	32.40	
Ch: 30 to 60m		1	30.00	1.20	0.90	32.40	
Ch: 60 to 90m		1	30.00	1.20	0.90	32.40	
Ch: 90 to 120m		1	30.00	1.20	0.90	32.40	
Ch: 120 to 127.8m		1	7.80	1.20	0.90	8.42	
2nd cross, RHS							
Ch: 0 to 30m		1	30.00	1.20	0.90	32.40	
Ch: 30 to 60m		1	30.00	1.20	0.90	32.40	
Ch: 60 to 90m		1	30.00	1.20	0.90	32.40	
Ch: 90 to 120m		1	30.00	1.20	0.90	32.40	
Ch: 120 to 136.3m		1	16.20	1.20	0.90	17.50	
Culvert							
4th cross		1	4.60	1.50	1.00	6.90	
3rd A cross		1	5.20	1.50	1.00	7.80	
1st cross		1	6.40	1.50	1.00	9.60	
					Present Qty	**1161.08**	**Cum**

Contractor

NEWZEN CONSULTANT PMC BANGALORE

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
Asst. Executive Engineer,
ಬ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106.

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

ate of Pre-Measurement : 20/11/2019

Detailed Measurements

em No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)							
	Ananthapura							
	4th cross, LHS							
	Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
	Ch: 30 to 60m		1	30.00	1.20	0.15	5.40	
	Ch: 60 to 90m		1	30.00	1.20	0.15	5.40	
	Ch: 90 to 116m		1	26.00	1.20	0.15	4.68	
	4th cross, RHS							
	Ch: 0 to 26.3m		1	26.30				
	Ch: 26.3 to 56.3m		1	30.00	1.20	0.15	5.40	
	Ch: 56.3 to 80.3m		1	24.00	1.20	0.15	4.32	
	Ch: 80.3 to 110.3m		1	30.00				
	Ch: 110.3 to 118.6m		1	8.30				
	Ch: 118.6 to 148.6m		1	30.00	1.20	0.15	5.40	
	Ch: 148.6 to 178.6m		1	30.00	1.20	0.15	5.40	
	Ch: 178.6 to 208.6m		1	30.00	1.20	0.15	5.40	
	Ch: 208.6 to 225.2m		1	16.60	1.20	0.15	2.99	
	Ooty Convent Rd, RHS							
	Ch: 0 to 29.7m		1	29.70	1.20	0.15	5.35	
	Road Gap							
	Ch: 0 to 28.6m		1	28.60	1.20	0.15	5.15	
	Road Gap							
	Ch: 0 to 22.4m		1	22.40	1.20	0.15	4.03	
	Road Gap							
	Ch: 0 to 29.6m		1	29.60				
	Ch: 29.6 to 51.2m		1	21.60	1.20	0.15	3.89	
	Ch: 51.2 to 74.0m		1	22.80				
	1st cross, LHS							
	Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
	Ch: 30 to 37.4m		1	7.40	1.20	0.15	1.33	
	Road Gap							
	Ch: 0 to 30m		1	30.00				
	Ch: 30 to 60m		1	30.00	0.70	0.15	3.15	
	Ch: 60 to 80.2m		1	20.20	0.70	0.15	2.12	
	Road Gap							
	Ch: 0 to 30m		1	30.00	0.70	0.15	3.15	
	Ch: 30 to 36.2m		1	6.20	0.70	0.15	0.65	
	1st cross, RHS							

Ch: 0 to 28.9m		1	28.90	1.20	0.15	5.20	
3rd cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
Ch: 30 to 34.2m		1	4.20	1.20	0.15	0.76	
3rd cross, RHS							
Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
Ch: 30 to 34.4m		1	4.40	1.20	0.15	0.79	
3rd A cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
Ch: 30 to 60m		1	30.00	1.20	0.15	5.40	
Ch: 60 to 82.5m		1	22.50	1.20	0.15	4.05	
3rd A cross, RHS							
Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
Ch: 30 to 60m		1	30.00	1.20	0.15	5.40	
Ch: 60 to 82.1m		1	22.10	1.20	0.15	3.98	
Ashwath Katte, 1st cross							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 47m		1	17.00	1.10	0.15	2.81	
Lead off							
Ch: 0 to 13m		1	13.00	1.10	0.15	2.15	
11th main, 3rd cross							
Cross Road 4							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 31.5m		1	1.50	1.10	0.15	0.25	
2nd cross, LHS							
Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
Ch: 30 to 60m		1	30.00	1.20	0.15	5.40	
Ch: 60 to 90m		1	30.00	1.20	0.15	5.40	
Ch: 90 to 120m		1	30.00	1.20	0.15	5.40	
Ch: 120 to 127.8m		1	7.80	1.20	0.15	1.40	
2nd cross, RHS							
Ch: 0 to 30m		1	30.00	1.20	0.15	5.40	
Ch: 30 to 60m		1	30.00	1.20	0.15	5.40	
Ch: 60 to 90m		1	30.00	1.20	0.15	5.40	
Ch: 90 to 120m		1	30.00	1.20	0.15	5.40	
Ch: 120 to 136.3m		1	16.20	1.20	0.15	2.92	
Culvert							
4th cross		1	4.60	1.50	0.15	1.04	
3rd A cross		1	5.20	1.50	0.15	1.17	
1st cross		1	6.40	1.50	0.15	1.44	
					Present Qty	**197.45**	**Cum**

Contractor

NEWZEN CONSULTANT BANGALORE PMC

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ, ಉಪವಿಭಾಗ
Asst. Executive Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪ ಬೆಂಗಳೂರು-64

20/11/2019

Name of Work: **Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03**

Date of Pre-Measurement : 30|11|2019

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD							
	Raft							
	Ananthapura							
	4th cross, LHS							
	Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
	Ch: 30 to 60m		1	30.00	1.10	0.15	4.95	
	Ch: 60 to 90m		1	30.00	1.10	0.15	4.95	
	Ch: 90 to 116m		1	26.00	1.10	0.15	4.29	
	4th cross, RHS							
	Ch: 0 to 26.3m		1	26.30				
	Ch: 26.3 to 56.3m		1	30.00	1.10	0.15	4.95	
	Ch: 56.3 to 80.3m		1	24.00	1.10	0.15	3.96	
	Ch: 80.3 to 110.3m		1	30.00				
	Ch: 110.3 to 118.6m		1	8.30				
	Ch: 118.6 to 148.6m		1	30.00	1.10	0.15	4.95	
	Ch: 148.6 to 178.6m		1	30.00	1.10	0.15	4.95	
	Ch: 178.6 to 208.6m		1	30.00	1.10	0.15	4.95	
	Ch: 208.6 to 225.2m		1	16.60	1.10	0.15	2.74	
	Ooty Convent Rd, RHS							
	Ch: 0 to 29.7m		1	29.70	1.10	0.15	4.90	
	Road Gap							
	Ch: 0 to 28.6m		1	28.60	1.10	0.15	4.72	
	Road Gap							
	Ch: 0 to 22.4m		1	22.40	1.10	0.15	3.70	
	Road Gap							
	Ch: 0 to 29.6m		1	29.60				
	Ch: 29.6 to 51.2m		1	21.60	1.10	0.15	3.56	
	Ch: 51.2 to 74.0m		1	22.80				
	1st cross, LHS							
	Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
	Ch: 30 to 37.4m		1	7.40	1.10	0.15	1.22	
	Road Gap							
	Ch: 0 to 30m		1	30.00				
	Ch: 30 to 60m		1	30.00	0.70	0.15	3.15	
	Ch: 60 to 80.2m		1	20.20	0.70	0.15	2.12	
	Road Gap							
	Ch: 0 to 30m		1	30.00	0.70	0.15	3.15	
	Ch: 30 to 36.2m		1	6.20	0.70	0.15	0.65	

1st cross, RHS							
Ch: 0 to 28.9m		1	28.90	1.10	0.15	4.77	
3rd cross, LHS							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 34.2m		1	4.20	1.10	0.15	0.69	
3rd cross, RHS							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 34.4m		1	4.40	1.10	0.15	0.73	
3rd A cross, LHS							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 60m		1	30.00	1.10	0.15	4.95	
Ch: 60 to 82.5m		1	22.50	1.10	0.15	3.71	
3rd A cross, RHS							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 60m		1	30.00	1.10	0.15	4.95	
Ch: 60 to 82.1m		1	22.10	1.10	0.15	3.65	
Ashwath Katte, 1st cross							
Ch: 0 to 30m		1	30.00	0.90	0.15	4.05	
Ch: 30 to 47m		1	17.00	0.90	0.15	2.30	
Lead off							
Ch: 0 to 13m		1	13.00	0.90	0.15	1.76	
11th main, 3rd cross							
Cross Road 4							
Ch: 0 to 30m		1	30.00	0.90	0.15	4.05	
Ch: 30 to 31.5m		1	1.50	0.90	0.15	0.20	
2nd cross, LHS							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 60m		1	30.00	1.10	0.15	4.95	
Ch: 60 to 90m		1	30.00	1.10	0.15	4.95	
Ch: 90 to 120m		1	30.00	1.10	0.15	4.95	
Ch: 120 to 127.8m		1	7.80	1.10	0.15	1.29	
2nd cross, RHS							
Ch: 0 to 30m		1	30.00	1.10	0.15	4.95	
Ch: 30 to 60m		1	30.00	1.10	0.15	4.95	
Ch: 60 to 90m		1	30.00	1.10	0.15	4.95	
Ch: 90 to 120m		1	30.00	1.10	0.15	4.95	
Ch: 120 to 136.3m		1	16.20	1.10	0.15	2.67	
Wall							
Ananthapura							
4th cross, LHS							
Ch: 0 to 30m		2	30.00	0.15	0.60	5.40	
Ch: 30 to 60m		2	30.00	0.15	0.60	5.40	
Ch: 60 to 90m		2	30.00	0.15	0.60	5.40	
Ch: 90 to 116m		2	26.00	0.15	0.60	4.68	
4th cross, RHS							
Ch: 0 to 26.3m		2	26.30				
Ch: 26.3 to 56.3m		2	30.00	0.15	0.60	5.40	
Ch: 56.3 to 80.3m		2	24.00	0.15	0.60	4.32	
Ch: 80.3 to 110.3m		2	30.00				
Ch: 110.3 to 118.6m		2	8.30				

Ch: 118.6 to 148.6m		2	30.00	0.15	0.60	5.40	
Ch: 148.6 to 178.6m		2	30.00	0.15	0.60	5.40	
Ch: 178.6 to 208.6m		2	30.00	0.15	0.60	5.40	
Ch: 208.6 to 225.2m		2	16.60	0.15	0.60	2.99	
Ooty Convent Rd, RHS							
Ch: 0 to 29.7m		2	29.70	0.15	0.55	4.90	
Road Gap							
Ch: 0 to 28.6m		2	28.60	0.15	0.55	4.72	
Road Gap							
Ch: 0 to 22.4m		2	22.40	0.15	0.55	3.70	
Road Gap							
Ch: 0 to 29.6m		2	29.60				
Ch: 29.6 to 51.2m		2	21.60	0.15	0.55	3.56	
Ch: 51.2 to 74.0m		2	22.80				
1st cross, LHS							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 37.4m		2	7.40	0.15	0.55	1.22	
Road Gap							
Ch: 0 to 30m		2	30.00				
Ch: 30 to 60m		2	30.00	0.15	0.55	4.95	
Ch: 60 to 80.2m		2	20.20	0.15	0.55	3.33	
Road Gap							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 36.2m		2	6.20	0.15	0.55	1.02	
1st cross, RHS							
Ch: 0 to 28.9m		2	28.90	0.15	0.55	4.77	
3rd cross, LHS							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 34.2m		2	4.20	0.15	0.55	0.69	
3rd cross, RHS							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 34.4m		2	4.40	0.15	0.55	0.73	
3rd A cross, LHS							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 60m		2	30.00	0.15	0.55	4.95	
Ch: 60 to 82.5m		2	22.50	0.15	0.55	3.71	
3rd A cross, RHS							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 60m		2	30.00	0.15	0.55	4.95	
Ch: 60 to 82.1m		2	22.10	0.15	0.55	3.65	
Ashwath Katte, 1st cross							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 47m		2	17.00	0.15	0.55	2.81	
Lead off							
Ch: 0 to 13m		2	13.00	0.15	0.55	2.15	
11th main, 3rd cross							
Cross Road 4							
Ch: 0 to 30m		2	30.00	0.15	0.55	4.95	
Ch: 30 to 31.5m		2	1.50	0.15	0.55	0.25	
2nd cross, LHS							

Ch: 0 to 30m		2	30.00	0.15	0.60	5.40		
Ch: 30 to 60m		2	30.00	0.15	0.60	5.40		
Ch: 60 to 90m		2	30.00	0.15	0.60	5.40		
Ch: 90 to 120m		2	30.00	0.15	0.60	5.40		
Ch: 120 to 127.8m		2	7.80	0.15	0.60	1.40		
2nd cross, RHS								
Ch: 0 to 30m		2	30.00	0.15	0.60	5.40		
Ch: 30 to 60m		2	30.00	0.15	0.60	5.40		
Ch: 60 to 90m		2	30.00	0.15	0.60	5.40		
Ch: 90 to 120m		2	30.00	0.15	0.60	5.40		
Ch: 120 to 136.3m		2	16.20	0.15	0.60	2.92		
Culvert Raft								
4th cross		1	4.60	1.30	0.23	1.38		
3rd A cross		1	5.20	1.30	0.23	1.55		
1st cross		1	6.40	1.30	0.23	1.91		
Culvert Wall								
4th cross		2	4.60	0.23	0.55	1.16		
3rd A cross		2	5.20	0.23	0.55	1.32		
1st cross		2	6.40	0.23	0.55	1.62		
					Present Qty	**378.82**	**Cum**	

C&E

Contractor

NEWZEN CONSULTANT * BANGALORE * PMC

Assistant Engineer

30/11/2019

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
Asst. Executive Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

Date of Pre-Measurement : 7/12/2019

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)							
	Ananthapura							
	4th cross, LHS							
	Total Drain length=116.0m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=1160.00Nos		1160	2.10		0.61	1485.96	
	Distribution bar							
	Distribution bar 10mm dia @ 110mm							
	0.61kg/mtr		18	116.00		0.61	1273.68	
	4th cross, RHS							
	Total Drain length=160.60m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=1606.00Nos		1606	2.10		0.61	2057.29	
	Distribution bar							
	Distribution bar 10mm dia @ 110mm							
	0.61kg/mtr		18	160.60		0.61	1763.39	
	Ooty Convent Rd, RHS							
	Total Drain length=102.30m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=1023.00Nos		1023	2.10		0.61	1310.46	
	Distribution bar							
	Distribution bar 10mm dia @ 110mm							
	0.61kg/mtr		18	102.30		0.61	1123.25	
	1st cross, LHS							
	Total Drain length=123.80m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							
	No of U-bar=1238.00Nos		1238	1.80		0.61	1359.32	
	Distribution bar							
	Distribution bar 10mm dia @ 110mm							
	0.61kg/mtr		16	123.80		0.61	1208.29	
	1st cross, RHS							
	Total Drain length=28.90m							
	Main bar 10mm dia bar @ 100mm							
	0.61kg/mtr							

No of U-bar=289.00Nos		289	2.10		0.61	370.21	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		18	28.90		0.61	317.32	
3rd cross, LHS							
Total Drain length=34.20m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=342.00Nos		342	2.10		0.61	438.10	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		18	34.20		0.61	375.52	
3rd cross, RHS							
Total Drain length=34.40m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=344.00Nos		344	2.10		0.61	440.66	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		18	34.40		0.61	377.71	
3rd A cross, LHS							
Total Drain length=82.50m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=825.00Nos		825	2.10		0.61	1056.83	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		18	82.50		0.61	905.85	
3rd A cross, RHS							
Total Drain length=82.10m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=821.00Nos		821	2.10		0.61	1051.70	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		18	82.10		0.61	901.46	
Ashwath Katte, 1st cross							
Total Drain length=60.0m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=600.00Nos		600	1.90		0.61	695.40	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		15	60.00		0.61	549.00	
Cross Road 4							
Total Drain length=31.5m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=315.00Nos		315	1.90		0.61	365.09	
Distribution bar							

Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		15	31.50		0.61	288.23	
2nd cross, LHS							
Total Drain length=127.80m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=1278.00Nos		1278	2.10		0.61	1637.12	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		18	127.80		0.61	1403.24	
2nd cross, RHS							
Total Drain length=136.30m							
Main bar 10mm dia bar @ 100mm							
0.61kg/mtr							
No of U-bar=1363.00Nos		1363	2.10		0.61	1746.00	
Distribution bar							
Distribution bar 10mm dia @ 110mm							
0.61kg/mtr		19	136.30		0.61	1579.72	
Culvert							
Total Culvert length=16.20m							
Main bar 10mm dia bar @ 130mm							
0.61kg/mtr							
No of U-bar=249.00Nos		249	2.40		0.61	364.54	
Distribution bar							
Distribution bar 10mm dia @ 150mm							
0.61kg/mtr		34	16.20		0.61	335.99	
						26781.32	
					Present Qty	**26.79**	**Ton**

C&FC

Contractor

NEWZEN CONSULTANT BANGALORE PMC

Assistant Engineer

7/12/2019

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

Asst. Executive Engineer,

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

Date of Pre-Measurement :

Detailed Measurements

Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)									
Pre-measurement sheet no 1 to 2						1161.08			
					Present Qty	**1161.08**	**Cum**	**215.28**	**249958.00**
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.									
Pre-measurement sheet no 3 to 5						197.45			
					Present Qty	**197.45**	**Cum**	**5421.90**	**1070536.00**
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of									
Pre-measurement sheet no 6 to 8						378.82			
					Present Qty	**378.82**	**Cum**	**7070.20**	**2678344.00**
KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.									
Pre-measurement sheet no 9						26.79			
					Present Qty	**26.79**	**Ton**	**73992.24**	**1981934.00**

Contractor

NEWZEN CONSULTANTS BANGALORE PMC

Assistant Engineer

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಸಂಖ್ಯೆ
Asst. Executive Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

7/12/2019

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

of Measurement : 8/2/2019

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of									
	Ananthapura									
	4th cross, LHS									
	Ch: 0 to 30m		1	30.00	0.90		27.00			
	Ch: 30 to 60m		1	30.00	0.90		27.00			
	Ch: 60 to 90m		1	30.00	0.90		27.00			
	Ch: 90 to 116m		1	26.00	0.90		23.40			
	4th cross, RHS									
	Ch: 0 to 26.3m		1	26.30						
	Ch: 26.3 to 56.3m		1	30.00	0.90		27.00			
	Ch: 56.3 to 80.3m		1	24.00	0.90		21.60			
	Ch: 80.3 to 110.3m		1	30.00						
	Ch: 110.3 to 118.6m		1	8.30						
	Ch: 118.6 to 148.6m		1	30.00	0.90		27.00			
	Ch: 148.6 to 178.6m		1	30.00	0.90		27.00			
	Ch: 178.6 to 208.6m		1	30.00	0.90		27.00			
	Ch: 208.6 to 225.2m		1	16.60	0.90		14.94			
	Ooty Convent Rd, RHS									
	Ch: 0 to 29.7m		1	29.70	0.90		26.73			
	Road Gap									
	Ch: 0 to 28.6m		1	28.60	0.90		25.74			
	Road Gap									
	Ch: 0 to 22.4m		1	22.40	0.90		20.16			
	Road Gap									
	Ch: 0 to 29.6m		1	29.60						
	Ch: 29.6 to 51.2m		1	21.60	0.90		19.44			
	Ch: 51.2 to 74.0m		1	22.80						
	1st cross, LHS									
	Ch: 0 to 30m		1	30.00	0.90		27.00			
	Ch: 30 to 37.4m		1	7.40	0.90		6.66			
	Road Gap									
	Ch: 0 to 30m		1	30.00						
	Ch: 30 to 60m		1	30.00	0.60		18.00			
	Ch: 60 to 80.2m		1	20.20	0.60		12.12			
	Road Gap									
	Ch: 0 to 30m		1	30.00	0.60		18.00			
	Ch: 30 to 36.2m		1	6.20	0.60		3.72			
	1st cross, RHS									
	Ch: 0 to 28.9m		1	28.90	0.90		26.01			
	3rd cross, LHS									
	Ch: 0 to 30m		1	30.00	0.90		27.00			
	Ch: 30 to 34.2m		1	4.20	0.90		3.78			
	3rd cross, RHS									

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BRUHAT BANGALORE

Ch: 0 to 30m		1	30.00	0.90		27.00			
Ch: 30 to 34.4m		1	4.40	0.90		3.96			
3rd A cross, LHS									
Ch: 0 to 30m		1	30.00	0.90		27.00			
Ch: 30 to 60m		1	30.00	0.90		27.00			
Ch: 60 to 82.5m		1	22.50	0.90		20.25			
3rd A cross, RHS									
Ch: 0 to 30m		1	30.00	0.90		27.00			
Ch: 30 to 60m		1	30.00	0.90		27.00			
Ch: 60 to 82.1m		1	22.10	0.90		19.89			
Ashwath Katte, 1st cross									
Ch: 0 to 30m		1	30.00	0.75		22.50			
Ch: 30 to 47m		1	17.00	0.75		12.75			
Lead off									
Ch: 0 to 13m		1	13.00	0.75		9.75			
11th main, 3rd cross									
Cross Road 4									
Ch: 0 to 30m		1	30.00	0.75		22.50			
Ch: 30 to 31.5m		1	1.50	0.75		1.13			
2nd cross, LHS									
Ch: 0 to 30m		1	30.00	0.90		27.00			
Ch: 30 to 60m		1	30.00	0.90		27.00			
Ch: 60 to 90m		1	30.00	0.90		27.00			
Ch: 90 to 120m		1	30.00	0.90		27.00			
Ch: 120 to 127.8m		1	7.80	0.90		7.02			
2nd cross, RHS									
Ch: 0 to 30m		1	30.00	0.90		27.00			
Ch: 30 to 60m		1	30.00	0.90		27.00			
Ch: 60 to 90m		1	30.00	0.90		27.00			
Ch: 90 to 120m		1	30.00	0.90		27.00			
Ch: 120 to 136.3m		1	16.20	0.90		14.58			
					Present Qty	**968.63**	**Sqm**	**2337.00**	**2263677.00**

Contractor

NEWZEN CONSULTANT * BANGALORE * PMC

Assistant Engineer

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು.
ಬ.ಬ.ಪಾ.ಪಾ.ಕ. ಬೆಂಗಳೂರು-106

Assistant Executive Engineer

3/2/2019

12/02/2019

Name of Work: Improvements to roads and drains at Ananthpura village SC-ST Surrounding areas in Ward No. 03

of Measurement : 3/2/2019

Detailed Measurements

m No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
6	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.									
	Culvert									
	4th cross		1	4.60	1.20		5.52			
	3rd A cross		1	5.20	1.20		6.24			
	1st cross		1	6.40	1.20		7.68			
						Present Qty	**19.44**	**Sqm**	**5418.00**	**105326.00**
									Total	**8349775.00**
									12% GST	**1001973.00**
									4% KRIDL	**333991.00**
									Grand Total	**9685739.00**

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Contractor

NEWZEN CONSULTANT BANGALORE PMC

Assistant Engineer

Asst. Executive Engineer

3/2/2019

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SOUMAT BANGALORE